

The Dawn *of a* New Era *for* Poultry Raisers







H. M. SHEER

At Last—the Perfect Heater

for **BROODERS** and **INCUBATORS**

No Oil Adjustment—No Trouble—Automatic Oil Feed

My new Super Sol-Hot Heater truly marks the dawn of a new era for poultry raisers. It is without a doubt the greatest achievement in poultry equipment.

For many years Sol-Hot Heaters have been recognized by poultry raisers as the "best heater on the market." They gave splendid satisfaction—they were far superior to other types of heaters, but nevertheless I felt that until they

could be made absolutely automatic and trouble proof, there was still room for improvements. I have looked forward for years to the time when I would be able to give to the poultry raisers a heater that was absolutely automatic and positively dependable—one that would require no oil adjustment.

My ambitions have at last been realized and I have finally overcome all the objections of old style heaters. It is with real pride and satisfaction that I now offer to my thousands of poultry raiser friends

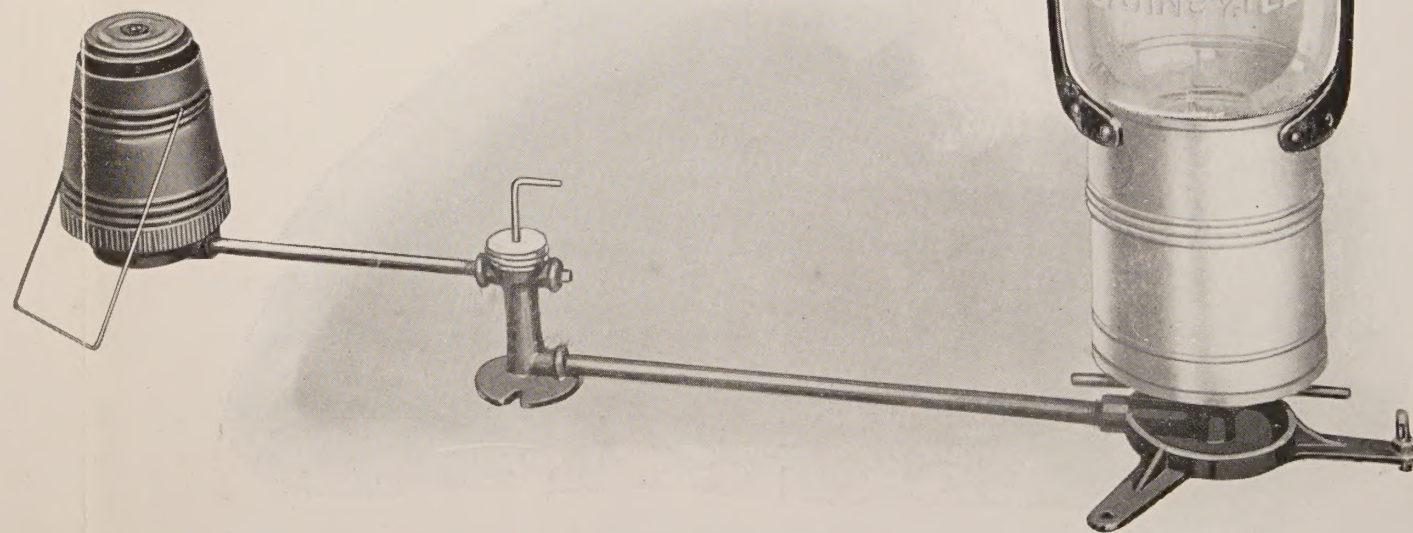
THE SUPER



The Best Heater Ever Built

The new Improved Sol-Hot embodies the fundamental principles that are absolutely necessary in a heater for the successful hatching and rearing of chicks, but in addition it has certain features that make it vastly superior, in fact a heater that is completely automatic and positively dependable day in and day out. It is the one and only heater on the market that is absolutely automatic. Once the burner is lighted it cannot go out as long as there is oil in the oil supply tank. The danger from fire caused by burners going out and oil continuing to flow through the burner and dropping down on the floor is entirely eliminated in the Sol-Hot because the oil stops the minute the flame is extinguished. In other words, the oil flows into the burner, but cannot flow any faster than the flame burns it.

You regulate the size of flame by raising or lowering the oil container; turning the oil container to the left raises the reservoir and increases the flame—turning to the right decreases the size of flame. The lever just below the oil container locks container, holding it in the desired position. When you have a Sol-Hot Heater you have the positive assurance that the flame in your heater will be burning just as you left it, except as it varies to meet the changing weather conditions. You need never worry about the flame dying down or going out in the night—this positively cannot occur with the Sol-Hot.

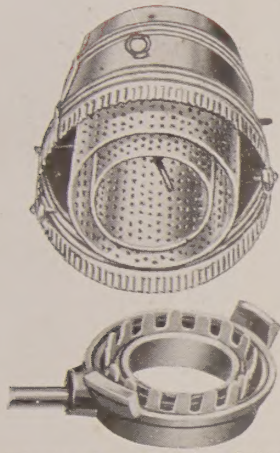


H. M. SHEER CO. QUINCY, ILLINOIS

Why Super SOL-HOT Leads All

TRADE
REGISTERED
U.S. PATENT OFFICE
MARK

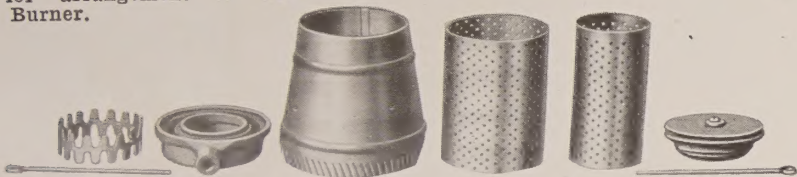
Wickless—Odorless—Automatic



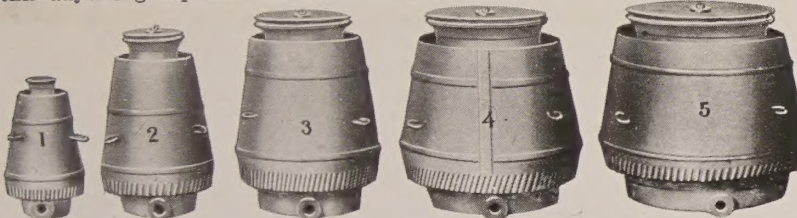
Sol-Hot Heaters from the top of the glass reservoir to the top of the famous Sol-Hot Burner are constructed of the highest grade material obtainable and according to principles that insure safe dependable operation, uniform heat and lasting satisfaction.

Sol-Hot represents the crowning achievement in heater construction. All of the imperfections—all of the shortcomings—all of the many little annoyances that have heretofore been found in all oil burning heaters, have been overcome and entirely done away with in the perfecting of the automatic oil control.

THE BURNER



Here we show the parts of my new Burner, its construction, simplicity and ease with which it can be taken apart for cleaning and reassembled. Notice the little spreader cap at the right has a plate on top which is adjustable; by means of the screw in the center this cap can be raised and lowered so as to evenly balance the air to both screens which permits burning a larger flame than would be possible without this adjusting cap.



Above illustration shows the five different sizes of Sol-Hot Burners. The oil consumption of these burners will range from a pint a day in the Baby Sol-Hot to something over a gallon in the No. 5 Heater.

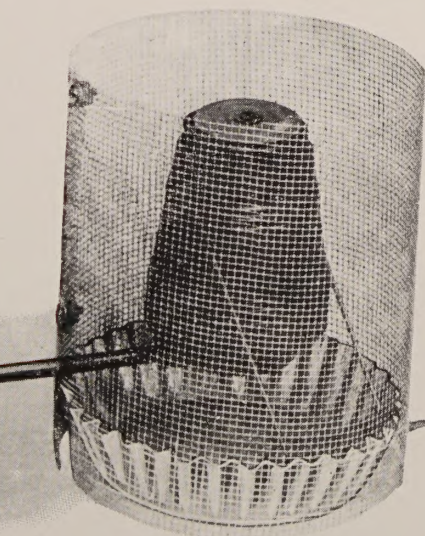
over the floor and litter is eliminated. In the first place the flame won't go out, providing it is adjusted according to instructions, and even if it did, the oil flow would stop the instant the flame quit burning—not a drop of oil would overflow. This feature of absolute safety from fires is in itself enough to make the Super Sol-Hot the preference of all poultry raisers, to say nothing of its many other superior points of merit, convenience, durability and dependability.

SATISFACTION GUARANTEED

Knowing as we do the dependability and reliability of Super Sol-Hot Heaters and Sol-Hot Canopy Brooders, we guarantee every purchaser complete satisfaction. This ironclad guarantee of satisfaction is your protection.



Patented
1921



Note protecting safety screen around Burner, which prevents Chicks from scratching litter in flame and starting a fire.

The Sol-Hot Burner practically converts an oil burning heater into a gas burner. The All Metal Vaporizer and the screen construction is such that after the heater is once generated it burns a steady uniform blue flame without the smoke, soot and fumes that are always prevalent with a wick burner. The base of the burner is made of gray cast iron and will last a lifetime. The outer casing is of heavy sheet steel. Inside of this are the perforated screens for diffusing the air and generating gas. These screens are much heavier than those used in other oil burners, because of the intense heat the Sol-Hot produces.

Won't Overflow—Won't Go Out

Here is the outstanding feature of Sol-Hot Heaters. Once your burner is lighted you don't have to give it another moment's thought, as long as there is oil in your supply tank. Neither do you have to waste time in adjusting "oil control devices," because on the Super Sol-Hot there are none—the oil flow is absolutely automatic. Adjusting needle valves, set screws, etc., are entirely done away with, and it's all accomplished by a patented device at bottom of the supply tank and the "oil level device between the supply tank and the burner. Danger of flame going out and oil dripping down

1st
Place

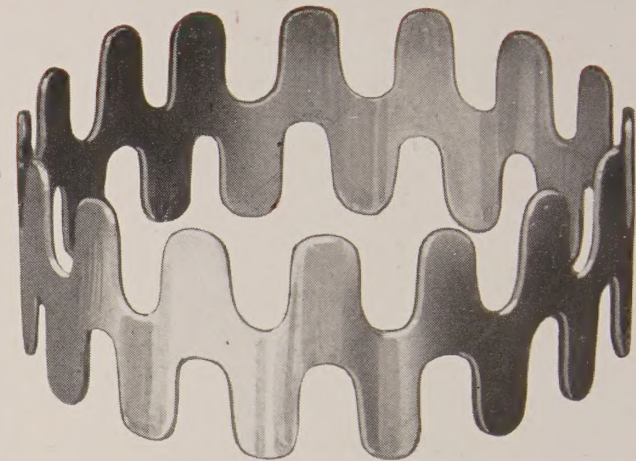


H.M. SHEER
Inventor and
Patentee of
SOL-HOT HEATERS

H.M. SHEER CO.
QUINCY
ILL.

It Has an All-Metal Vaporizer

The illustration at the right shows the all-metal vaporizer with which all Sol-Hot Heaters are equipped. This patented device takes the place of the old-fashioned asbestos vaporizer that has always been such a source of trouble and annoyance. The asbestos vaporizers have a tendency to become covered with carbon—get hard, do not burn evenly—flame shoots up one side and emits soot and smoke. This little, but wonderful, device causes the burner to burn uniform all the time. It does not carbonize easily and if it does it only takes a minute to lift it out and clean it. The burner starts instantly by priming the burner with gasoline or denatured alcohol—touch a match to it and turn on the oil. It can also be started easily without using gasoline, by putting a strip of ordinary paper around the vaporizer and pushing it down into the oil. The paper burns away and generates the oil. All poultry raisers who have experienced the trouble caused by asbestos vaporizers will certainly appreciate the big improvement my Metal Vaporizer affords. This together with my positive automatic oil control—doing away with valve and screw adjustments, are the two leading features which make the new Super Sol-Hot as near perfection as it is possible to obtain. Asbestos ring vaporizers can also be used on Super Sol-Hot burners, but we do not recommend them because the Metal Vaporizer is so superior. The reason other burners continue to use asbestos rings is because we control the patents on the Metal Vaporizer.

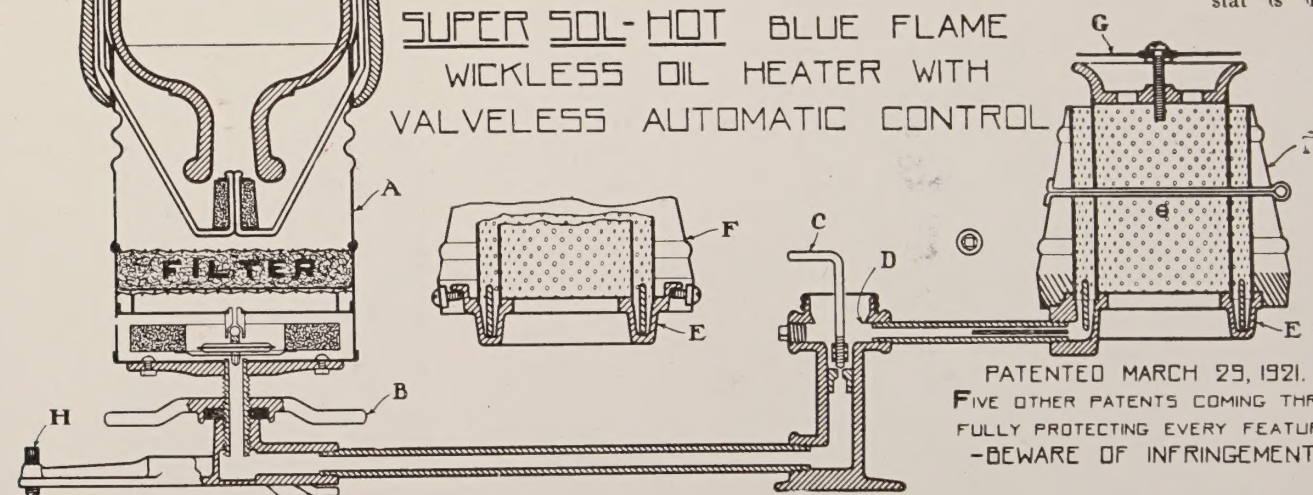


All Metal Vaporizer
(Pat. 1921)

Sectional View Shows Simplicity of the Super Sol-Hot

The illustration at left clearly shows why the Super Sol-Hot is so far superior to other heaters with their intricate valves, oil adjustments, etc. You will notice that the oil level control "D" is on a level with the entry of the oil into the feed pipe from the supply tank. That's why the Super Sol-Hot burner cannot overflow—the oil stops flowing to the burner the instant the flame stops burning. The oil level is maintained by a float and thermostat in the lower part of the oil chamber directly under the filter. This float operates automatically the same as a float on the carburetor of a gasoline motor—it never requires attention—never causes any trouble. The thermostat is made of brass, carefully and thoroughly tested. Owing to the fact that it is enclosed and sealed in bottom of oil container and that varying changes of temperature never subject it to more than 1/32 of an inch expansion, it will last a lifetime without ever requiring attention—it is never subjected to over-expansion like thermostats which are exposed to the direct radiation of the hot air.

SECTIONAL VIEW OF THE
SUPER SOL-HOT BLUE FLAME
WICKLESS OIL HEATER WITH
VALVELESS AUTOMATIC CONTROL



PATENTED MARCH 29, 1921.
FIVE OTHER PATENTS COMING THROUGH
FULLY PROTECTING EVERY FEATURE.
—BEWARE OF INFRINGEMENTS—

adjustment is made the thermostat, which is mounted on the float, automatically controls the flame. The thermostat will expand as oil becomes warm and as it expands the steel ball rises and reduces flow of oil—as oil becomes cold thermostat contracts, ball drops down, consequently the oil level will be slightly lower and flame smaller in warm temperature and oil level higher and burn larger flame in cold temperature. The size of flame always corresponds with height of oil level. To start burner bring oil up to point indicated by "D." Now close valve "C," prime and light burner, then in a few seconds open valve "C" wide and the flame will burn steady and constantly—automatically increasing or decreasing with varying temperature. Sol-Hot Heaters are shipped fully assembled. All you have to do is remove it from crate, see that it is set level on the floor, fill container, adjust oil level and light the burner as explained above. The fact that heaters are completely assembled before they leave our factory assures that all parts fit perfectly and everything in first-class working order when it reaches you.

Sol-Hot Heaters for Incubators

The accompanying illustrations show the simplicity and convenient arrangement of the Super Sol-Hot Heaters when used for heating incubators. Notice particularly the accessibility of the burner—how it can be swung to one side in a convenient position for lighting. This handy arrangement together with its dependability and automatic oil control, which absolutely insures uniform heat, with no danger of flame going out—no trouble—no care—makes the Super Sol-Hot the most desirable Heater for incubators. The Super Sol-Hot is the ideal heater for either hot air or hot water heated machines. Your hatching troubles are over when Super Sol-Hot is on the job.



Illustration showing burner in position for operating

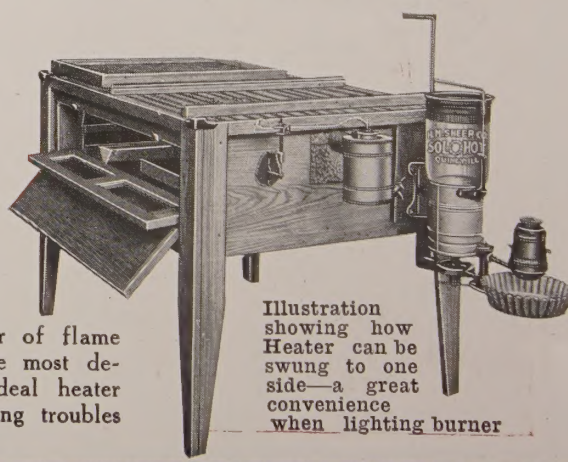
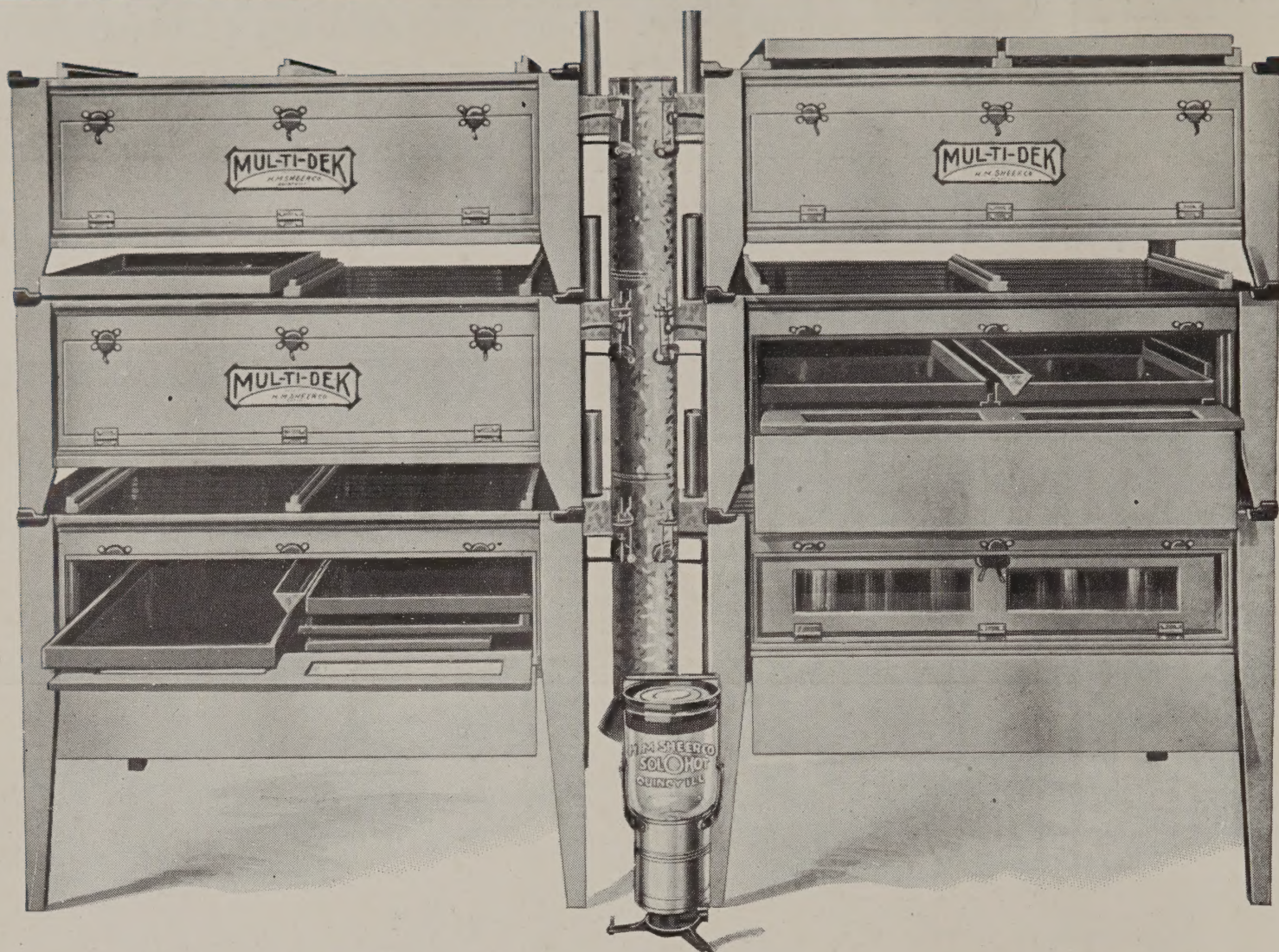


Illustration showing how Heater can be swung to one side—a great convenience when lighting burner



MUL-TI-DEK

SECTIONAL

BABY MAMMOTH INCUBATOR

Here is the latest thing in incubators—a sectional machine that exactly fits the requirements of each individual poultryman. You can start with one or two units of 250-egg capacity and as your needs grow you can add additional sections until you have a machine of 2,000 egg capacity. One Sol-Hot Heater will heat one or eight sections.

Build It Yourself—Our Free Plans Tell How or Furnished Complete—Ready to Set Up

During the past few years there has been a constantly growing demand for a larger incubator—something in between the usual standard sizes and the large expensive Mammoth Incubators. This induced me to study out, design and perfect an incubator that would best fit this need. Here it is.

If you are planning hatches from 250-egg up to 2,000 or more, you will find the MUL-TI-DEK just what you want. You don't have to spend a big amount of money for a Mammoth Machine—you can start in a small way and add a section at a time just as you need it. Each section can be operated independently of the others if desired.

Write For Free Mul-ti-Dek Catalog Folder

Write for free illustrated catalog folder, which tells all about it—how it is built—how it is operated. We will also send you complete plans so that you can build it yourself and save a lot of money.

H. M. SHEER COMPANY, QUINCY, ILL.